



Deployed Electronically,  
Manually Or Passively

Self-Stores,  
Pivots Open

## BOTTOM HINGE FLOOD BARRIER (BH-590)

FLOOD PROTECTION THAT STAYS HIDDEN, DEPLOYING AUTOMATICALLY WHEN NEEDED

It's never been easier to keep your property safe from flooding, thanks to the Bottom Hinge Flood Barrier from PS Flood Barriers™. It self-stores within a walk/drive surface and self-deploys by pivoting up when flooding occurs, all without human intervention. This flood protection system is ideal for commercial applications, including driveways/walkways, storefronts, exterior door openings and loading docks.

### CHOOSE AUTOMATIC OR MANUAL PROTECTION

- Can be deployed electronically, passively activated by rising floodwaters or manually engaged
- Passive flood protection always in place – quick deployment during flooding conditions

### NO TRIPPING HAZARDS

- Self-stores within a walk/drive surface for normal use without creating any tripping hazards

### STRONG ENOUGH TO KEEP WATER OUTSIDE WHERE IT BELONGS

- Available in mild steel, stainless steel and aluminum construction
- Engineered to meet H-20-44 loading standards on roadways



### Ask About Our Other Flood Barriers:



Hinged  
Flood Barrier



Vertical Lift  
Flood Barrier



Sliding  
Flood Barrier

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## STANDARD TECHNICAL DATA

### DESIGN:

- Flood barriers designed for maximum water height/width, all loads transferred to adjacent structure
- Design is subject to a uniformly increasing fluid pressure (hydrostatic pressure loading of water at 64 pcf)

### ENGINEERING:

- Flood barriers are engineered to conform to design requirements that are based on the latest adopted edition of the International Building Code (IBC), while including the application of the representative load combinations and appropriate equivalent safety factors as recommend by the following applicable standards and supplements: ASCE/SEI 7 and 24, FEMA (ref. IBC 2012), FM Global, AISC, AAADM and ACI

### MATERIAL:

- Fabricated from aluminum, mild steel or stainless steel sheeting, formed shapes, structural tubing and welded construction

### GASKETS:

- Compressible rubber material
- Factory mounted to flood panel assembly/jamb members

### JAMBS/FRAME:

- Fabricated from structural shapes/formed members
- Welded construction
- Field install on existing structure and/or embedded within structure

### HARDWARE:

- All hardware necessary for installation, hinging, latching and retaining flood barrier
- Sealants and water-stop

### TRAFFIC LOAD RATINGS:

- **Option 1:** Rated for pedestrian traffic only
- **Option 2:** Rated for light vehicle traffic
- **Option 3:** Rated for large, H20 vehicle traffic, including forklift

### ACTIVATION OPTIONS:

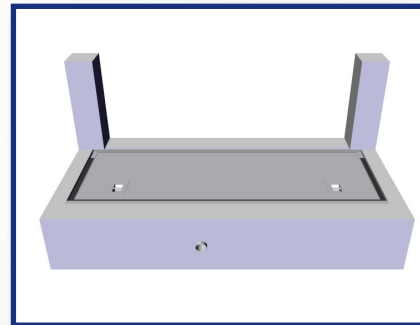
- **Standard:** Passive/manual configuration; barrier activated by the rising floodwater or manually activated by a person (this system does not require electricity)
- **Automated:** Electromechanical initiator; 12V DC system, capable of being interfaced with sensors or control panel system (includes battery backup)
- **NOTE:** Automated activation system may be activated passively, manually or automatically; provides triple redundancy

### WARRANTY:

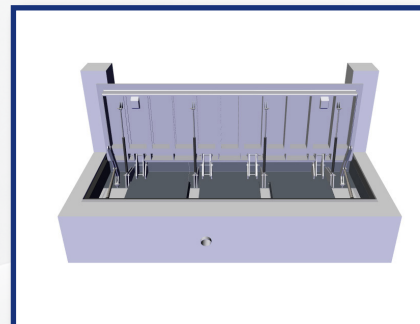
- One (1) year from date of shipment

### STRUCTURAL CALCULATIONS:

- **Standard:** Calculations by a qualified engineer to verify the flood barrier's ability to withstand design loading; available upon request
- **Optional:** Registered, professional-engineer stamped calculations from within the state or territory where the barrier will be installed; additional costs will apply



Stored for normal use



Deployed for flood protection



Control Panel\*



Warning Light\*



Warning Horn\*

\*Not Manufactured  
by PS Industries™  
Incorporated